

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
16 December 2004 (16.12.2004)

PCT

(10) International Publication Number
WO 2004/107960 A2

- (51) International Patent Classification⁷: **A61B**
- (21) International Application Number:
PCT/US2004/017770
- (22) International Filing Date: 4 June 2004 (04.06.2004)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
10/455,878 6 June 2003 (06.06.2003) US
- (71) Applicant (for all designated States except US): **FISCHER IMAGING CORPORATION** [US/US]; 12300 North Grant Street, Denver, CO 80241 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): **BESSON, Guy, M.** [FR/US]; 1672 Emerald Street, Broomfield, CO 80020 (US). **NIELDS, Morgan, W.** [US/US]; Sunrise Drive #4, Englewood, CO 80110 (US).
- (74) Agent: **MARSH, Thomas, R.**; Marsh Fischmann & Breyfogle LLP, Suite 411, 3151 South Vaughn Way, Aurora, CO 80014 (US).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

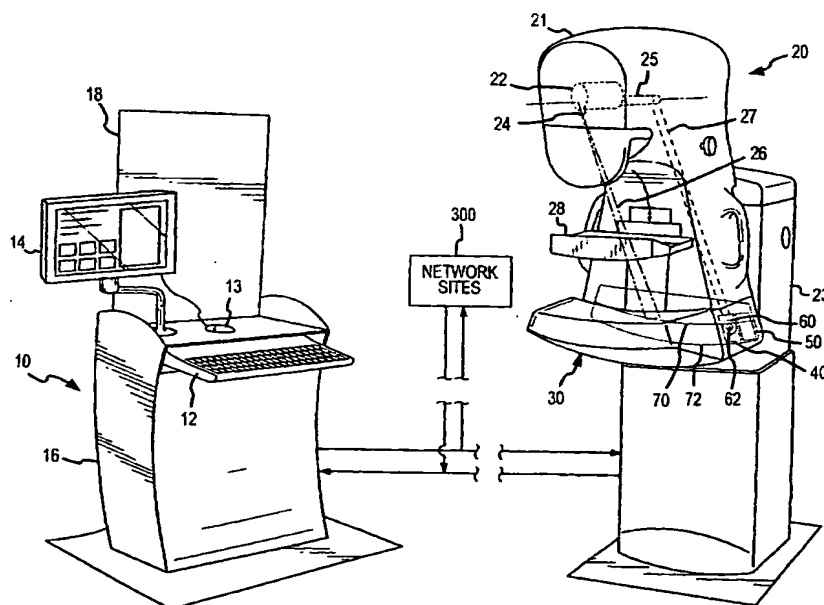
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— without international search report and to be republished upon receipt of that report

[Continued on next page]

(54) Title: INTEGRATED X-RAY AND ULTRASOUND MEDICAL IMAGING SYSTEM



(57) Abstract: An integrated x-ray and ultrasound medical imaging system is provided, wherein a radiation detection means and ultrasound transducer may be disposed for scanning movement for image acquisition along either the same or substantially coincidental paths. The radiation detection means and ultrasound transducer may be advantageously located on the same side of the imaged body portion. The x-ray and ultrasound imaging operations may be sequential, partially overlapping, or synchronous. By virtue of the noted arrangement, increased accuracy and medical efficiencies can be realized.

BEST AVAILABLE COPY

WO 2004/107960 A2



For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

BEST AVAILABLE COPY